CLAIMS:

1.   A moving picture reproducing apparatus comprising:

a decoder unit for receiving a bitstream, obtained on compressing/encoding a moving picture, and for restoring a picture image from said bitstream;

5   a characteristic parameter extraction unit for extracting a characteristic parameter from the picture image restored; and

a picture reconstruction unit for carrying out preset processing, using a temporally past characteristic parameter and/or a temporally future characteristic parameter, for restoring a picture image which has

10   not been received.

2.   A moving picture reproducing apparatus comprising:

a decoder unit for receiving a bitstream, obtained on compressing/encoding a moving picture, decoding at least one characteristic parameter from said bitstream, outputting the

5   characteristic parameter decoded, and for restoring a picture image, using the characteristic parameter decoded; and

a picture reconstruction unit for carrying out preset processing, using a temporally past characteristic parameter and/or a temporally future characteristic parameter, for restoring a picture image which has

10   not been received.

3.   A moving picture reproducing apparatus comprising:

a decoder unit for receiving a bitstream, obtained on compressing/encoding a moving picture, and for restoring a picture image from said bitstream; and

5   a picture reconstruction unit for dividing the picture image into a plurality of blocks, each being of a preset small size, extracting a characteristic parameter from the picture image restored, in at least one of said blocks, deciding on whether or not preset processing is to be carried out, with the use of a temporally past characteristic parameter

10 and/or a temporally future characteristic parameter, and for subsequently restoring a picture image which has not been received.

4. A moving picture reproducing apparatus comprising:

   a decoder unit for receiving a bitstream, obtained on compressing/encoding a moving picture, decoding at least one characteristic parameter from said bitstream, outputting the so decoded

5 characteristic parameter, and for restoring a picture image, using the decoded characteristic parameter; and

   a picture reconstruction unit for dividing the picture image into a plurality of blocks, each being of a preset small size, deciding on whether or not preset processing is to be carried out, in at least one

10 small-sized block, with the use of a temporally past characteristic parameter and/or a temporally future characteristic parameter, and for subsequently restoring a picture image which has not been received.

5. A moving picture reproducing apparatus comprising:

   a decoder unit for receiving a bitstream, obtained on compressing/encoding a moving picture, and for restoring a picture image from said bitstream;

5   a characteristic parameter extraction unit for extracting a characteristic parameter from the picture image restored; and

a picture reconstruction unit for carrying out interpolation, using at least one of a temporally past characteristic parameter and a temporally future characteristic parameter, along the time axis, for

10 subsequently restoring a picture image which has not been received.

6. A moving picture reproducing apparatus comprising:

a decoder unit for receiving a bitstream, obtained on compressing/encoding a moving picture, decoding at least one characteristic parameter from said bitstream, outputting the so decoded

5 characteristic parameter, and for restoring a picture image, using the characteristic parameter decoded; and

a picture reconstruction unit for carrying out interpolation, using at least one of a temporally past characteristic parameter and a temporally future characteristic parameter, along the time axis, for

10 subsequently restoring a picture image which has not been received.

7. A moving picture reproducing apparatus comprising:

a decoder unit for receiving a bitstream, obtained on compressing/encoding a moving picture, and for restoring a picture image from said bitstream; and

5 a picture reconstruction unit for dividing the picture image into a plurality of blocks, each being of a preset small size, extracting a characteristic parameter from the picture image restored, in at least one of said blocks, deciding on whether or not interpolation along the time axis is to be carried out, with the use of at least one of a temporally

10 past characteristic parameter and a temporally future characteristic parameter, and for subsequently restoring a picture image which has

not been received.

8. A moving picture reproducing apparatus comprising:

a decoder unit for receiving a bitstream, obtained on compressing/encoding a moving picture, decoding at least one characteristic parameter from said bitstream, outputting the so decoded characteristic parameter, and for restoring a picture image, using the characteristic parameter decoded; and

a picture reconstruction unit for dividing the picture image into a plurality of blocks, each being of a preset small size, deciding, in at least one of said small-sized blocks, on whether or not interpolation is to be carried out, with the use of at least one of a temporally past characteristic parameter and a temporally future characteristic parameter, and for subsequently restoring a picture image which has not been received.

9. A moving picture reproducing apparatus comprising:

a decoder, said decoder including:

a decoding unit for receiving a bitstream, obtained on compressing/encoding a moving picture, decoding the bitstream received, and for outputting quantized transform coefficients;

a inverse quantizer for carrying out calculations for inverse quantization on the quantized transform coefficients output from said decoding unit;

an inverse transformer for carrying out inverse transform, which is inverse to the transform carried out on an encoder side, on transform coefficients obtained on inverse quantization by said inverse quantizer;

an adder receiving said moving picture signal, obtained on inverse transform by said inverse transformer, at an input end thereof; and

15   a motion compensation predictor for carrying out motion compensation/prediction on the moving picture signal, output from said adder, with the use of a characteristic parameter, output from said decoding unit, and for supplying the resulting moving picture signal to another input end of said adder;

20   said decoder outputting, as a decoder output signal, a moving picture signal obtained on summing, by said adder, a moving picture signal output from said inverse transformer, and a moving picture signal output from said motion compensation predictor;

a frame memory for storing a moving picture signal output from

25 said decoder;

a characteristic parameter extraction unit for extracting a characteristic parameter from the moving picture signal output from said decoder; and

a moving picture reconstruction unit for receiving the

30 characteristic parameter from said characteristic parameter extraction unit, receiving a temporally past picture and/or a temporally future picture from said frame memory, reproducing a moving picture frame, with the use of said characteristic parameter, and for outputting the moving picture frame reproduced.

10. A moving picture reproducing apparatus comprising:

a decoder, said decoder including:

a decoding unit for receiving a bitstream, obtained on compressing/encoding a moving picture, decoding the bitstream received, and for outputting quantized transform coefficients;

a inverse quantizer for carrying out calculations for inverse quantization on the quantized transform coefficients output from said decoding unit;

an inverse transformer for carrying out inverse transform, which is inverse to the transform carried out on an encoder side, on transform coefficients obtained on inverse quantization by said inverse quantizer;

an adder receiving said moving picture signal, obtained on inverse transform by said inverse transformer, at an input end thereof; and

a motion compensation predictor for carrying out motion compensation/prediction on the moving picture signal, output from said adder, using a characteristic parameter output from said decoding unit, and for supplying the resulting moving picture signal to another input end of said adder;

said decoder outputting, as a decoder output signal, a moving picture signal, obtained on summing, by said adder, a moving picture signal output from said inverse transformer and a moving picture signal output from said motion compensation predictor;

a frame memory for storing a moving picture signal output from said decoder; and

a moving picture reconstruction unit for receiving the characteristic parameter from an output from said decoder, receiving a

temporally past picture and/or a temporally future picture from said frame memory, reproducing a moving picture frame using said

30 characteristic parameter and for outputting the moving picture frame reproduced.

11. A moving picture reproducing apparatus comprising:

a decoder, said decoder including:

a decoding unit for receiving a bitstream, obtained on compressing/encoding a moving picture, decoding the bitstream

5 received, and for outputting quantized transform coefficients;

a inverse quantizer for carrying out calculations for inverse quantization on the quantized transform coefficients output from said decoding unit;

an inverse transformer for carrying out inverse transform,

10 which is inverse to the transform carried out on an encoder side, on transform coefficients obtained on inverse quantization by said inverse quantizer;

an adder receiving said moving picture signal, obtained on inverse transform by said inverse transformer, at an input end

15 thereof; and

a motion compensation predictor for carrying out motion compensation/prediction on the moving picture signal, output from said adder, using a characteristic parameter output from said decoding unit, and for supplying the resulting moving picture signal to another input

20 end of said adder;

said decoder outputting, as a decoder output signal, a moving

picture signal obtained on summing, by said adder, a moving picture signal output from said inverse transformer, and a moving picture signal output from said motion compensation predictor;

25   a frame memory for storing a moving picture signal, output from said decoder;

a division-into-small-size block unit for receiving an output from said decoder, dividing a picture image restored into preset small-sized blocks, and for outputting demarcations of said small-sized

30   blocks;

a characteristic parameter extraction/decision unit for extracting a characteristic parameter in at least one of said small-sized blocks, outputting the characteristic parameter extracted, deciding, in at least one of said small-sized blocks, on whether or not the processing for

35   restoring a moving picture is to be carried out with use of said characteristic parameter, and for outputting a decision signal; and

a moving picture reconstruction unit for receiving the characteristic parameter, results of decision and the information on the small-sized blocks, from said characteristic parameter

40   extractor/decision unit, receiving a temporally past picture and/or a temporally future picture, from said frame memory, reproducing a moving picture frame, with the use of said characteristic parameter, and for outputting the reproduced moving picture frame.

12.   A moving picture reproducing apparatus comprising:

a decoder, said decoder including:

a decoder unit for receiving a bitstream, obtained on

compressing/encoding a moving picture, decoding the bitstream

5   received, and for outputting quantized transform coefficients;

a inverse quantizer for carrying out calculations for inverse quantization on the quantized transform coefficients output from said decoding unit;

an inverse transformer for carrying out inverse transform,

10   which is inverse to the transform carried out on an encoder side, on transform coefficients obtained on inverse quantization by said inverse quantizer;

an adder receiving said moving picture signal, obtained on inverse transform by said inverse transformer, at an input end

15   thereof; and

a motion compensation predictor for carrying out motion compensation/prediction on the moving picture signal, output from said adder, using a characteristic parameter output from said decoding unit, and for supplying the resulting moving picture signal to another input

20   end of said adder;

said decoder outputting, as a decoder output signal, a signal obtained on summing, by said adder, a moving picture signal output from said inverse transformer, and a moving picture signal output from said motion compensation predictor;

25   a frame memory for storing a moving picture signal output from said decoder;

a division-into-small-block/decision unit for receiving an output from said decoder, dividing a picture image restored into a plurality of

preset small-sized blocks, outputting demarcations of said small-sized

30   blocks, extracting a characteristic parameter in at least one of said

small-sized blocks, outputting the characteristic parameter extracted,

deciding, in at least one of said small-sized blocks, on whether or not

processing for restoring a moving picture is to be carried out, with the

use of said characteristic parameter, and for outputting a decision

35   signal; and

a moving picture reconstruction unit for receiving the

characteristic parameter, results of decision from said

division-into-small-block/decision unit and the information on the

small-sized block, from said decoding unit, receiving a temporally past

40   picture and/or a temporally future picture, from said frame memory,

reproducing a moving picture frame, with the use of said characteristic

parameter, and for outputting the reproduced moving picture frame.

13.   A moving picture reproducing apparatus comprising:

a decoder, said decoder including:

a decoder unit for receiving a bitstream, obtained on

compressing/encoding a moving picture, decoding the bitstream

5   received, and for outputting quantized transform coefficients;

a inverse quantizer for carrying out calculations for

inverse quantization on the quantized transform coefficients output

from said decoding unit;

an inverse transformer for carrying out inverse transform,

10   which is inverse to the transform carried out on an encoder side, on

transform coefficients obtained on inverse quantization by said inverse

quantizer;

an adder receiving said moving picture signal, obtained on inverse transform by said inverse transformer, at an input end
15 thereof; and

a motion compensation predictor for carrying out motion compensation/prediction on the moving picture signal, output from said adder, using a characteristic parameter output from said decoding unit, and for supplying the resulting moving picture signal to another input
20 end of said adder;

said decoder outputting, as a decoder output signal, a moving picture signal obtained on summing, by said adder, a moving picture signal output from said inverse transformer, and a moving picture signal output from said motion compensation predictor;

25 a frame memory for storing a moving picture signal output from said decoder;

a characteristic parameter extracting unit for extracting a characteristic parameter from the moving picture signal output from said decoder unit;

30 an interpolator for receiving an output of said characteristic parameter extracting unit for carrying out interpolation along the time axis using at least one of a temporally past characteristic parameter and a temporally future characteristic parameter; and

a moving picture reconstruction unit for receiving a
35 characteristic parameter from said interpolator, receiving a temporally past picture and/or a temporally future picture from said frame memory,

reproducing a moving picture frame, with the use of said interpolated characteristic parameter, and for outputting a reproduced moving picture frame.

14.   A moving picture reproducing apparatus comprising:

a decoder, said decoder including:

a decoder unit for receiving a bitstream, obtained on compressing/encoding a moving picture, decoding the bitstream

5   received, and for outputting quantized transform coefficients;

a inverse quantizer for carrying out calculations for inverse quantization on the quantized transform coefficients output from said decoding unit;

an inverse transformer for carrying out inverse transform,

10   which is inverse to the transform carried out on an encoder side, on transform coefficients obtained on inverse quantization by said inverse quantizer;

an adder receiving said moving picture signal, obtained on inverse transform by said inverse transformer, at an input end

15   thereof; and

a motion compensation predictor for carrying out motion compensation/prediction on the moving picture signal, output from said adder, using a characteristic parameter output from said decoding unit, and for supplying the resulting moving picture signal to another input

20   end of said adder;

said decoder outputting, as a decoder output signal, a signal obtained on summing, by said adder, a moving picture signal output

from said inverse transformer, and a moving picture signal output from said motion compensation predictor;

25   a frame memory for storing a moving picture signal, output from said decoder;

an interpolator for receiving a characteristic parameter from the decoding unit of said decoder for carrying out interpolation along the time axis using at least one of the temporally past characteristic

30   parameter and the temporally future characteristic parameter; and

a moving picture reconstruction unit for receiving a characteristic parameter from said interpolator, receiving a temporally past characteristic parameter and/or a temporally future characteristic parameter from said frame memory, reproducing a moving picture frame,

35   with the use of said interpolated characteristic parameter, and for outputting a reproduced moving picture frame.

15.   A moving picture reproducing apparatus comprising:

a decoder, said decoder including:

a decoding unit for receiving a bitstream, obtained on compressing/encoding a moving picture, decoding the bitstream

5   received, and for outputting quantized transform coefficients;

a inverse quantizer for carrying out calculations for inverse quantization on the quantized transform coefficients output from said decoding unit;

an inverse transformer for carrying out inverse transform, which is inverse to the transform carried out on an encoder side, on

10   transform coefficients obtained on inverse quantization by said inverse

quantizer;

an adder receiving said moving picture signal, obtained on inverse transform by said inverse transformer, at an input end

15 thereof; and

a motion compensation predictor for carrying out motion compensation/prediction on the moving picture signal, output from said adder, using a characteristic parameter output from said decoding unit, and for supplying the resulting moving picture signal to another input

20 end of said adder;

said decoder outputting, as a decoder output signal, a moving picture signal obtained on summing, by said adder, a moving picture signal output from said inverse transformer, and a moving picture signal output from said motion compensation predictor;

25 a frame memory for storing a moving picture signal, output from said decoder;

a division-into-small-size block unit for receiving an output of said decoder, dividing a restored picture frame into a plurality of blocks, each being of preset small size, and for outputting demarcations

30 of the small-sized blocks;

a characteristic parameter extraction/decision unit for receiving the information on the division into said small-sized blocks from said division-into-small-size block unit, extracting and outputting a characteristic parameter in at least one of said small-sized blocks,

35 deciding on whether or not the processing for restoration of a moving picture is to be carried out, in at least one of said small-sized blocks,

with the use of said characteristic parameter, and for outputting a decision signal;

an interpolator for receiving the characteristic parameter from

40   said characteristic parameter extraction/decision unit and for carrying out interpolation along the time axis, using at least one of a temporally past characteristic parameter and a future characteristic parameter; and

a moving picture reconstruction unit for receiving the characteristic parameter, obtained on interpolation by said interpolator,

45   result of said decision and the information on the small-sized blocks, for receiving a temporally past picture and/or a temporally future picture from said frame memory, reproducing a moving picture frame, with the use of said characteristic parameter, and for outputting the moving picture frame reproduced.

16.   A moving picture reproducing apparatus comprising:

a decoder, said decoder including:

a decoding unit for receiving a bitstream, obtained on compressing/encoding a moving picture, decoding the bitstream

5   received, and for outputting quantized transform coefficients;

a inverse quantizer for carrying out calculations for inverse quantization on the quantized transform coefficients output from said decoding unit;

an inverse transformer for carrying out inverse transform,

10   which is inverse to the transform carried out on an encoder side, on transform coefficients obtained on inverse quantization by said inverse quantizer;

an adder receiving said moving picture signal, obtained on inverse transform by said inverse transformer, at an input end

15   thereof; and

a motion compensation predictor for carrying out motion compensation/prediction on the moving picture signal, output from said adder, using a characteristic parameter output from said decoding unit, and for supplying the resulting moving picture signal to another input

20   end of said adder;

said decoder outputting a signal, as a decoder output signal, obtained on summing, by said adder, a moving picture signal output from said inverse transformer, and a moving picture signal output from said motion compensation predictor;

25   a frame memory for storing a moving picture signal output from said decoder;

a division-into-small-block/decision unit for receiving an output from said decoder, dividing a restored picture image into a plurality of blocks, each being of a preset small size, outputting demarcations of

30   said small-sized blocks, extracting and outputting a characteristic parameter in at least one of said small-sized blocks, and for deciding, in at least one of said small-sized blocks, on whether or not the processing for restoring a moving picture is to be carried out, using said characteristic parameter;

35   an interpolator for receiving a characteristic parameter from said decoding unit, receiving the result of decision in said division-into-small-block/decision unit and the information on the

division into small-sized blocks, and carrying out interpolation along the time axis, using at least one of the temporally past characteristic parameter and the temporally future characteristic parameter; and

a moving picture reconstruction unit for receiving a characteristic parameter, obtained on interpolation by said interpolator, receiving the results of decision and the information on division into small-sized blocks, receiving a temporally past picture or a temporally future picture from said frame memory, reproducing a moving picture frame, with the use of said characteristic parameter, and for outputting a reproduced moving picture frame.

17. The moving picture reproducing apparatus according to any one of claims 9 to 16, wherein said characteristic parameter is a motion vector; and wherein

said moving picture reconstruction unit performs, as inter-frame prediction, the motion compensation/inter-frame prediction, employing the motion vector, for reproducing a moving picture frame.

18. A moving picture reproducing method comprising:

a step of a decoder unit receiving a bitstream, obtained on compressing/encoding a moving picture, and restoring a picture image from said bitstream;

a step of a characteristic parameter extraction unit extracting a characteristic parameter from the picture image restored in said decoder unit; and

a step of a picture reconstruction unit carrying out preset processing, with the use of a temporally past characteristic parameter

10   and/or a temporally future characteristic parameter, for restoring a

picture image which has not been received.

19.   A moving picture reproducing method comprising:

a step of a decoder unit receiving a bitstream, obtained on

compressing/encoding a moving picture, decoding at least one

characteristic parameter from said bitstream, outputting the

5   characteristic parameter decoded, and restoring a picture image using

said characteristic parameter decoded; and

a step of a picture reconstruction unit carrying out preset

processing, using a temporally past characteristic parameter and/or a

temporally future characteristic parameter, for restoring a picture

10   image which has not been received.

20.   A moving picture reproducing method comprising:

a step of a decoder unit receiving a bitstream, obtained on

compressing/encoding a moving picture, and restoring a picture image

from said bitstream; and

5   a step of a picture reconstruction unit dividing the picture image

into a plurality of blocks, each being of a preset small size, extracting

a characteristic parameter from said picture image restored, in at least

one of said blocks, deciding on whether or not preset processing is to

be carried out, with the use of a temporally past characteristic

10   parameter and/or a temporally future characteristic parameter, and

subsequently restoring a picture image which has not been received.

21.   A moving picture reproducing method comprising:

a step of a decoder unit receiving a bitstream, obtained on

compressing/encoding a moving picture, decoding at least one characteristic parameter from said bitstream, outputting the so decoded characteristic parameter, and restoring a picture image, using the restored characteristic parameter; and

a step of a picture reconstruction unit dividing the picture image into a plurality of blocks, each being of a preset small size, deciding whether or not preset processing is to be carried out, in at least one of said small-sized blocks, with the use of a temporally past characteristic parameter and/or a temporally future characteristic parameter, and subsequently restoring a picture image which has not been received.

22. A moving picture reproducing method comprising:

a step of a decoder receiving a bitstream, obtained on compressing/encoding a moving picture, and restoring a picture image from said bitstream;

a step of a characteristic parameter extraction unit extracting a characteristic parameter from said restored picture image; and

a step of a picture reconstruction unit carrying out interpolation, along the time axis, using at least one of a temporally past characteristic parameter and a temporally future characteristic parameter, for subsequently restoring a picture image which has not been received.

23. A moving picture reproducing method comprising:

a step of a decoder unit receiving a bitstream, obtained on compressing/encoding a moving picture, decoding at least one characteristic parameter from said bitstream, outputting the so decoded

5   characteristic parameter, and restoring a picture image, using said characteristic parameter decoded; and

a step of a picture reconstruction unit carrying out interpolation along the time axis, using at least one of a temporally past characteristic parameter and a temporally future characteristic

10 parameter, for subsequently restoring a picture image which has not been received.

24.   A moving picture reproducing method comprising:

a step of a decoder unit receiving a bitstream, obtained on compressing/encoding a moving picture, and restoring a picture image from said bitstream; and

5   a step of a picture reconstruction unit dividing the picture image into a plurality of blocks, each being of a preset small size, extracting a characteristic parameter from said picture image restored, in at least one of said blocks, deciding on whether or not interpolation along the time axis is to be carried out, with the use of at least one of a

10 temporally past characteristic parameter and a temporally future characteristic parameter, and subsequently restoring a picture image which has not been received.

25.   A moving picture reproducing method comprising:

a step of a decoder unit receiving a bitstream, obtained on compressing/encoding a moving picture, decoding at least one characteristic parameter from said bitstream, outputting the so decoded

5   characteristic parameter, and restoring a picture image, using the characteristic parameter decoded; and

a step of a picture reconstruction unit dividing the picture image into a plurality of blocks, each being of a preset small size, deciding, in at least one of said small-sized blocks, whether or not interpolation along the time axis is to be carried out, with the use of at least one of a temporally past characteristic parameter and a temporally future characteristic parameter, and subsequently restoring a picture image which has not been received.

26.   A program for causing a computer, constituting an apparatus for receiving a bitstream, obtained on compressing/encoding a moving picture, and for reproducing the moving picture, to execute

the processing of restoring a picture image from said compressed/encoded bitstream;

the processing of extracting a characteristic parameter from the image restored; and

the processing of carrying out preset processing, using a temporally past characteristic parameter and/or a temporally future characteristic parameter, for restoring a picture image which has not been received.

27.   A program for causing a computer, constituting an apparatus for receiving a bitstream, obtained on compressing/encoding a moving picture, and for reproducing the moving picture, to execute

the processing of decoding at least one characteristic parameter from said compressed/encoded bitstream, outputting the characteristic parameter decoded and restoring a picture image using the characteristic parameter decoded; and

the processing of carrying out preset processing, with the use of a temporally past characteristic parameter and/or a temporally future
10 characteristic parameter, for restoring a picture image which has not been received.

28. A program for causing a computer, constituting an apparatus for receiving a bitstream, obtained on compressing/encoding a moving picture, and for reproducing the moving picture, to execute

the processing of restoring a picture image from the
5 compressed/encoded bitstream; and

the processing of dividing said picture image into a plurality of blocks, each being of a preset small size, extracting a characteristic parameter from the picture image restored, deciding, with the use of a temporally past characteristic parameter and/or a temporally future
10 characteristic parameter, on whether or not preset processing is to be carried out, and restoring a picture image which has not been received.

29. A program for causing a computer, constituting an apparatus for receiving a bitstream, obtained on compressing/encoding a moving picture, and for reproducing the moving picture, to execute

the processing of decoding at least one characteristic parameter
5 from said compressed/encoded bitstream, outputting the characteristic parameter decoded, and restoring a picture image, using the characteristic parameter decoded; and

the processing of dividing a picture image into a plurality of blocks, each being of a preset small size, deciding, in at least one of
10 said preset small-sized blocks, on whether or not preset processing is

to be carried out, with the use of a temporally past characteristic parameter and/or a temporally future characteristic parameter, and restoring a picture image which has not been received.

30. A program for causing a computer, constituting an apparatus for receiving a bitstream, obtained on compressing/encoding a moving picture, and for reproducing the moving picture, to execute

the processing of restoring a picture image from said

5   compressed/encoded bitstream;

the processing of extracting a characteristic parameter from the picture image restored; and

the processing of carrying out interpolation, along the time axis, using at least one of a temporally past characteristic parameter and a

10   temporally future characteristic parameter, for restoring a picture image which has not been received.

31. A program for causing a computer, constituting an apparatus for receiving a bitstream, obtained on compressing/encoding a moving picture, and for reproducing the moving picture, to execute

the processing of decoding at least one characteristic parameter

5   from said compressed/encoded bitstream, outputting the characteristic parameter decoded, and restoring a picture image, using the characteristic parameter decoded; and

the processing of carrying out interpolation along the time axis, using at least one of a temporally past characteristic parameter and a

10   temporally future characteristic parameter, for restoring a picture image which has not been received.

32. A program for causing a computer, constituting an apparatus for receiving a bitstream, obtained on compressing/encoding a moving picture, and for reproducing the moving picture, to execute

5 the processing of restoring a picture image from said compressed/encoded characteristic parameter; and

the processing of dividing a picture image into a plurality of blocks, each being of a preset small size, extracting a characteristic parameter from the image restored, in at least one small-sized block, deciding on whether or not interpolation on the time axis is to be

10 carried out, with the use of a temporally past characteristic parameter and/or a temporally future characteristic parameter, and restoring a picture image which has not been received.

33. A program for causing a computer, constituting an apparatus for receiving a bitstream, obtained on compressing/encoding a moving picture, and for reproducing the moving picture, to execute

the processing of decoding at least one characteristic parameter

5 from said compressed/encoded bitstream, outputting the characteristic parameter decoded, and restoring a picture image, using said characteristic parameter decoded; and

the processing of a picture reconstruction unit dividing a picture image into a plurality of blocks, each being of a preset small size,

10 deciding, in at least one small-sized block, whether or not interpolation on the time axis is to be carried out, with the use of a temporally past characteristic parameter and/or a temporally future characteristic parameter, and restoring a picture image which has not been received.

34.　A picture reproducing apparatus comprising:

　　means for receiving the information on a compressed/encoded picture to restore a picture image; and

　　means for extracting a preset characteristic parameter from said picture image decoded or in the process of decoding, and for restoring, from said characteristic parameter extracted and from said picture image restored, a picture image different from said picture image restored.

35.　A method for reproducing a picture image by a picture reproducing apparatus, said method comprising:

　　a step of receiving the information on a compressed/encoded picture to restore a picture image;

　　a step of extracting a preset characteristic parameter from said picture image decoded or in the process of decoding; and

a step of restoring, from said characteristic parameter extracted and from said picture image restored, a picture image different from said picture image restored.

36.　A program for causing a computer, constituting an apparatus for receiving the information on a compressed/encoded picture and for reproducing the information, to execute

　　the processing of receiving the information on a compressed/encoded picture to restore a picture image;

　　the processing of extracting a preset characteristic parameter from said picture image restored or in the process of decoding; and

the processing of restoring, from said characteristic parameter and from

said picture image restored, a picture image different from said picture

10   image restored.